SEARCH REQUEST FORM   Scientific and Technical Information Center - EIC2800

Rev. 3/15/2004   This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 272-2511.

Date 10/6/05   Serial # 10/809,392   Priority Application Date 10/24/03

Your Name M. Lewis   Examiner # _____

AU 2822   Phone 292-1835   Room 5A30

In what format would you like your results? Paper is the default.   (PAPER)   DISK   EMAIL

If submitting more than one search, please prioritize in order of need.   Need before 10/15

The EIC searcher normally will contact you before beginning a prior art search. If you would like to sit with a searcher for an interactive search, please notify one of the searchers.

Where have you searched so far on this case?
Circle: USPT   DWPI   EPO Abs   JPO Abs   IBM TDB
Other: _____ •

What relevant art have you found so far? Please attach pertinent citations or Information Disclosure Statements. _____

What types of references would you like? Please checkmark:
Primary Refs ✓   Nonpatent Literature ___   Other _____
Secondary Refs ✓   Foreign Patents ___
Teaching Refs ___

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search?   Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

Claims 1-17

Ferroelectric capacitor that reduces leakage current.

Problem: see page 9 (paragraph 8)
Solution: 11   11   3(11   8   9
                11   11   11
                    5   11

10/18/2005 10:18:37 AM

[File 324] German Patents Fulltext 1967-200540
[File 348] EUROPEAN PATENTS 1978-2005/Oct W02
[File 349] PCT FULLTEXT

Set	Items	Description
S1	79157	S (SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB? ? OR TAB? ? OR PRINT????()CIRCUIT()BOARD? ? OR CIRCUIT???()BOARD? ? OR LOAD()BOARD? ? OR LOADBOARD? ? OR LSI? ? OR ASIC? ? OR ELECTRON???()DEVICE? ? OR PRINT???()CIRCUIT??? OR IC? ? OR INTEGRAT????()CIRCUIT??? OR CHIP? ? OR WAFER???)(3N)(APPARATUS?? OR INSTRUMENT????? OR APPLIANCE? ? OR HARDWARE OR HARD()WARE? ? OR MEANS OR MECHANISM OR TOOL?????)

| S2 | 335999 | S (MANY OR MULTIPLE? ? OR DIFFEREN???? OR NUMEROUS OR NUMBER??? OR VARIOUS OR SEVERAL??? OR DIVERS???? OR THREE? ? OR FOUR? ? OR 2 OR 3 OR 4 OR MORE OR PLURALIT???)(3N)(TRANSISTOR????? OR SWITCH????) |

| S3 | 2964 | S FERROELECTRIC(3N)(CAPACIT????? OR CONDENSER? ? OR DIELECTRIC? ? OR MEMOR????) OR FERAM? |

| S4 | 159901 | S (RECTANG???? OR FOUR()SIDE?? OR OBLONG????? OR QUADRANG?????)(3N)(SHAPE? ? OR FORM? ? OR APPEARANCE? ? OR CONFIGURAT????? OR STRUCTURE? ? OR CHARACTER????????? OR MOLD???? OR CONFORMATION OR PATTERN?????) |

| S5 | 157782 | S (RATIO? ? OR CORRELAT???? OR PROPORTION????? OR RELATION???? OR COMPARISON? ? OR COMPARISM? ?)(3N)(LONGSIDE? ? OR SHORTSIDE? ? OR (LONG???? OR SHORT????)()SIDE OR LENGTH????? OR MEASUR???? OR DIMENSION? ? OR DISTANC???? OR LONGITUD????) |

| S6 | 21333 | S (LEAK???? OR STRAY???)(3N)CURRENT? ? |
| S7 | 258 | S (DAMAG????? OR DETERIORAT???? OR DEGRAD?????)(3N)FERROELECTRIC???? |

| S8 | 60 | S (FERROELECTRIC()CAPACITOR)(5N)(ARRAY? ? OR MATRIX OR MATRICE? ? OR ROW? ? OR COLUMN? ? OR PLURALIT???) |

S9	9219	S IC=(H01L-021/00 OR H01L-027/105 OR H01L-029/76)
S10	0	S MC=(U11-C18B5 OR U14-A03F)
S11	112	S S1 AND S2 AND S3
S12	12	S S11 AND S4
S13	3	S S12 AND S5
S14	14	S S11 AND S6 AND S7
S15	14	IDPAT (sorted in duplicate/non-duplicate order)
S16	13	IDPAT (primary/non-duplicate records only)
S17	11	S S16 AND PY<=2003
S18	84	S S3 AND S6 AND S7
S19	3	S S18 AND S9
S20	4	S S8 AND S9
S21	0	S S8 AND S4 AND S5
S22	0	S S8 AND S5
S23	7	S STRAIGHT()LINE? ?(5N)((FORTY()FIVE OR FOURTY()FIVE)()DEGREE? ?)
S24	0	S S23 AND S9
S25	0	S S23 AND S8
S26	0	S S23 AND S3
S27	1	S S12 AND S9
S28	1	S S27 NOT S13
S29	3	S S13 NOT S28
S30	3	S S19 NOT (S13 OR S28)
S31	4	S S20 NOT (S13 OR S19 OR S28)
S32	0	S S27 NOT (S13 OR S19 OR S20 OR S28)

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        FILE 'HCAPLUS.' ENTERED AT 14:02:34 ON 18 OCT 2005
L1       1399 SEA ABB=ON  PLU=ON  (FERROELEC? OR FERAM OR CAPACITOR?)(3A)(?AR
                                  RAY? OR MATRI##### OR ROW OR COLUMN OR MULTI OR MULTIPLE)
L2        988 SEA ABB=ON  PLU=ON  MULTICAPACITOR OR ?CAPACITOR?(3A)(MULTI OR
                                  ?ARRAY? OR MATRI##### OR ROW OR COLUMN OR MULTI OR MULTIPLE)
L3        528 SEA ABB=ON  PLU=ON  (L1 OR L2) AND (FERROELEC? OR FERAM)
L4        113 SEA ABB=ON  PLU=ON  FERROELEC?(5A)CAPACIT? AND L3
L5         17 SEA ABB=ON  PLU=ON  L4 AND (LENGTH OR WIDTH OR BREADTH OR
                                  HEIGHT OR DIMENSION OR SIZE##)
L6          2 SEA ABB=ON  PLU=ON  L5 AND ?PROTECT?
L7          0 SEA ABB=ON  PLU=ON  L5 AND ?PARTICLE
L8          0 SEA ABB=ON  PLU=ON  L5 AND ?PARTICULAT?
L9          3 SEA ABB=ON  PLU=ON  L5 AND ?DAMAG?
L10         2 SEA ABB=ON  PLU=ON  L5 AND ?DEGRAD?
L11         3 SEA ABB=ON  PLU=ON  L5 AND LEAK######
L12         3 SEA ABB=ON  PLU=ON  L5 AND CURRENT
L13         5 SEA ABB=ON  PLU=ON  (L6 OR L7 OR L8 OR L9 OR L10 OR L11 OR
                                  L12)
              D ALL TOT
L14       330 SEA ABB=ON  PLU=ON  ?CAPACITOR?(2A)?ARRAY?
L15         5 SEA ABB=ON  PLU=ON  CAPACITORS/AB AND L5
L16         7 SEA ABB=ON  PLU=ON  L14 AND L5
L17         4 SEA ABB=ON  PLU=ON  (L15 OR L16) NOT L13
              D ALL TOT
L18         1 SEA ABB=ON  PLU=ON  AREA AND L5
L19         0 SEA ABB=ON  PLU=ON  L18 NOT (L17 OR L13)
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